Say
"goodbye"
to power bills...

Working of Single-Phase Hybrid Solar System without Net Metering.



without Net Metering.



PV Panels

Suntria System

with EMS

<u>4 k₩</u> 2 kW

Load

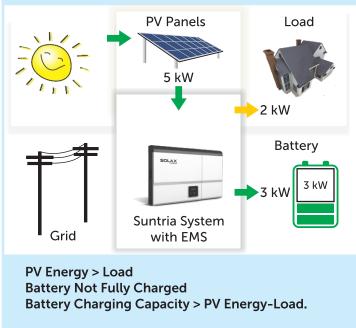
Battery

2 kW

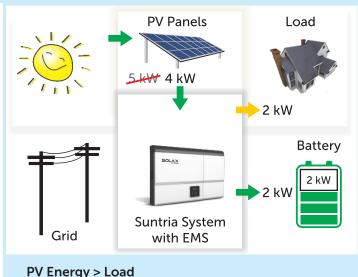
EMS System: Electronic Monitoring System

PV Energy more than Load i.e. PV Energy > Load

0241435



Battery will be charged





Grid

Battery Not Fully Charged
Battery Charging Capacity < PV Energy-Load.

The EMS will keep on generating at it's peak and any excess power is fed to the Grid.

The EMS will drop the generation so that PV Energy = Load

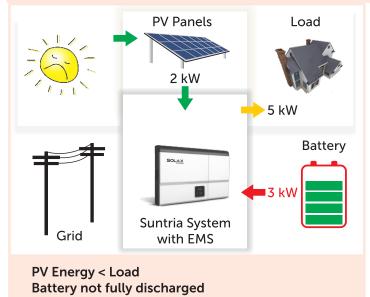
without Net Metering.



EMS System: Electronic Monitoring System

PV Energy less than Load i.e. PV Energy < Load

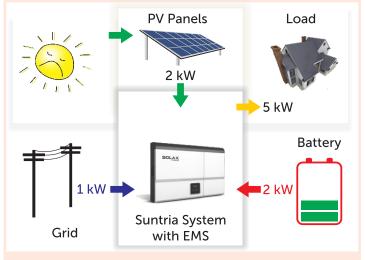
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Battery Capacity + PV Energy > Load.

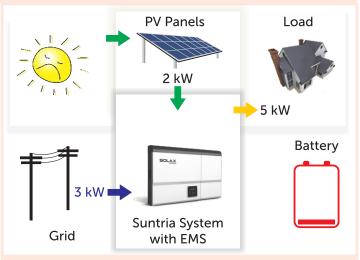
from the batteries.

The EMS will monitor and supplement demand



PV Energy < Load Battery not fully discharged Battery Capacity + PV Energy < Load.

The EMS will monitor and supplement demand from the batteries and GRID also.



PV Energy < Load Battery discharged

The EMS will monitor and supplement demand from GRID alone.

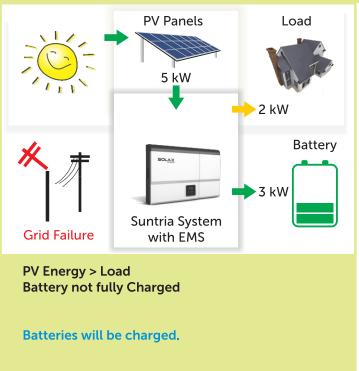
without Net Metering.

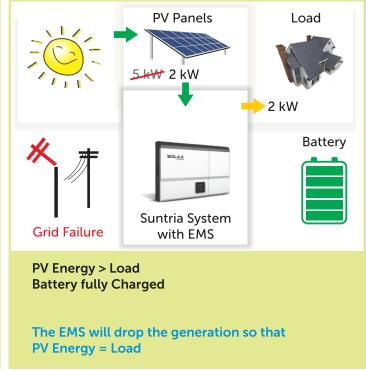


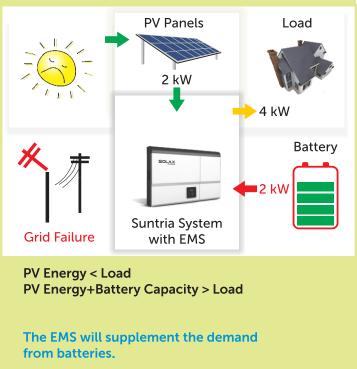
EMS System: Electronic Monitoring System

Power Outage (EMERGENCY POWER SUPPLY)

0241435







Say
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Working of Single-Phase Hybrid Solar System with Net Metering.

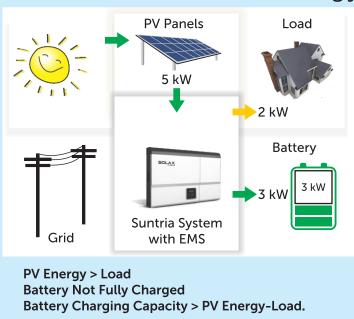


with Net Metering.

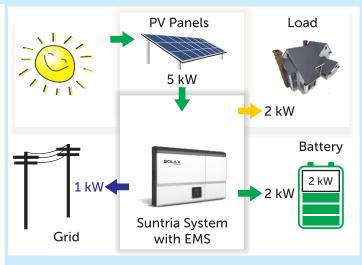


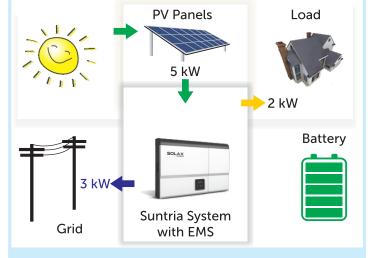
EMS System: Electronic Monitoring System

PV Energy more than Load i.e. PV Energy > Load



Battery will be charged





PV Energy > Load Battery Not Fully Charged Battery Charging Capacity < PV Energy-Load.

The EMS will keep on generating at it's peak and any excess power is fed to the Grid.

The EMS will drop the generation so that PV Energy = Load

PV Energy > Load

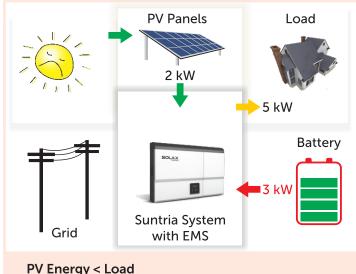
Battery Fully Charged.

with Net Metering.



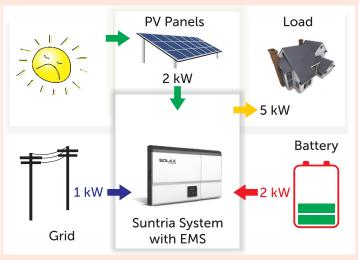
EMS System: Electronic Monitoring System

PV Energy less than Load i.e. PV Energy < Load



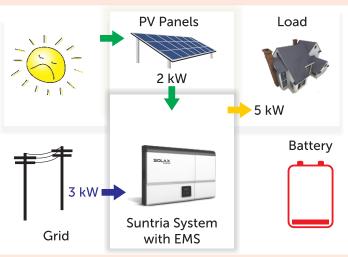
Battery not fully discharged
Battery Capacity + PV Energy > Load.

The EMS will monitor and supplement demand from the batteries.



PV Energy < Load
Battery not fully discharged
Battery Capacity + PV Energy < Load.

The EMS will monitor and supplement demand from the batteries and GRID also.



PV Energy < Load Battery discharged

The EMS will monitor and supplement demand from GRID alone.

with Net Metering.



EMS System: Electronic Monitoring System

Power Outage (EMERGENCY POWER SUPPLY)

